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**Ultra Steels
Innovation Of Steel**

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ULTRA-STEELS:
INNOVATION OF STEEL
STRUCTURES BY
MATERIALS EVOLUTION

Kotobu Nagai - NIMS,
Tsukuba, Japan

ABSTRACT To save
natural resources and
energy and conserve
our planet healthy as
well as to improve the
quality-of-life, we need
both breakthrough
materials and new
technologies to put the
breakthrough

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"Ultra-high strength steel" refers to alloy steel with yield strength above 1370 MPa (140kgf/mm²) and tensile strength above 1620 MPa (165kgf/mm²). The concept of ultra-high strength steel is developed to distinguish high-

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Of Steel strength steel and has been widely used in aerospace and air plane fields in recent years.

Wha's ultrahigh-strength steels(UHSS)?

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The Ultra-High Strength Steels is part of engineering steels courses. The engineering steels is

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part of the steel applications set of courses. In this courses, the different applications of these steels will be showed. The influence of the Tempering Temperature in the mechanical properties will be presented.

APP03072 - Ultra-High Strength Steels | steeluniversity

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structures by materials, as one of the most in action sellers here Steel has maintained a leading position through innovation in metallurgy and material processing while addressing industry's critical needs.

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Ultra Steels Innovation Of Steel Structures By Materials

The focus of its steel research lies in the

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fields of mobility, energy and sustainability. In 2012 the innovation budget for the 1,000 strongest research companies rose 5.8 per cent to a total of EUR 466 billion, according to a study published by management consultants Booz & Company.

Innovations in the steel industry - voestalpine

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- Decade of
Implementation 2000 -
Enabling Work at A/SP -
2011 Low Strength
Steels (<210MPa) Ultra
High Strength Steels
(>550MPa) High
Strength Steels) Yield

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Strength (MPa) 0 10 20
30 40 50 60 70 0 200
400 600 800 1000
1200 Mild BH AHSS
Conventional HSS
MART 2000 - Enabling
AHSS Development -
2011 2000 Functional

Evolution of Advanced High Strength Steels in Automotive ...

Because prior high
tensile strength steels
were unable to
withstand cold-

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pressing into complex shapes, they were used only for a limited number of parts. The advantage of 1.2-GPa Ultra High Tensile Strength Steel with High Formability is to have both high strength and elongation capacity.

Ultra High Tensile Strength Steel with High Formability ...

Purpose and goal. The project was led by

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Swerim and RISE IVF with the industrial partners Ovako, Scania, GKN ePowertrain, Volvo CE and GTO. The goal of the project is to 1) assess performance of ultra-clean steels in case-carburized components and 2) clarify how steel cleanliness is quantified and implemented in company material standards.

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Ultra-Clean steels in transmission components | Vinnova

The family of Fortiform® steels extends ArcelorMittal's range of Ultra High Strength Steels (UHSS). These steels allow the realisation of lightweight structural elements by a cold forming method such as stamping.

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Development of new steels for automotive products

The Hot Forming process allows for the formation of shapes that cannot be cold stamped with Ultra High Strength steels. The unique properties of this material combine both complexity and strength - and components made with press-hardened steel can accomplish in one

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piece what would usually require heavier, thicker parts that are welded together.

The Applications of Advanced High-Strength Steel ...

Based on the recent concept of quenching and partitioning (Q&P), a novel TMR-DQP (thermomechanical rolling followed by direct quenching and partitioning) processing route has

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been established for the development of ultra-high strength structural steels with yield strengths ≈ 1100 MPa combined with good uniform and total elongations and impact toughness.

Innovation and Processing of Novel Tough Ductile Ultra

...

Ultra-low carbon (ULC) Interstitial Free (IF) steels have been used

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as automobile panels since the latter half of the 1980s. This automobile panel material is normally produced by cold rolling and annealing after hot rolling, in which hot rolling is usually finished in the austenite region at the elevated temperature.

**Ultra Low Carbon
Interstitial Free
Steels :: Total
Materia ...**

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AK Steel continues to drive innovation today to produce the next generation of industry changing grades of steel. Creating lightweight, strong, formable steels, we stay on the forefront of technology, pushing our customers to think bigger.

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